

# SHLM CX

## Single Point Insertion Source Holder



### Application Area

The SHLM CX sourceholder is designed for radiation-based measurement of applications including density, interface, and continuous and point level.

The most common industries for the SHLM CX include:

- Chemical
- Petrochemical
- Offshore
- Refining

### Advantages

Recognizable benefits include:

- Rugged construction for harsh environments
- Standard ANSI flange for easy drywell mounting
- Convenient lifting lugs facilitate installation

### Function

The SHLM CX source holder is used for critically high pressure applications when the vessel walls are too thick for other sources. The SHLM CX source holder uses a stainless steel cable actuator to place a source inside the vessel by way of a dry well.

### Technical Data

#### Maximum Cs-137 Activity

- SHLM CX 1	3.7 GBq (100 mCi) for 50 uSv@305 mm (5mR/hr@12")
- SHLM CX 2	37 GBq (1000 mCi) for 50 uSv@305 mm (5mR/hr@12")
- SHLM CX 3	185 GBq (5000 mCi) for 50 uSv@305mm (5mR/hr@12")

#### Maximum C0-60 Activity

- SHLM CX 1	185 MBq (5 mCi) for 50 uSv@305mm (5mR/hr@12")
- SHLM CX 2	555 MBq (15 mCi) for 50 uSv@305mm (5mR/hr@12")
- SHLM CX 3	2.2 GBq (60 mCi) for 50 uSv@305mm (5mR/hr@12")

#### Fire Resistance

+538 °C (+1000 °F) for 5 minutes

#### Temperature

-40 ... +60 °C (-40 ... +140 °F)

#### Weight

- SHLM CX 1	41 kg (90 lbs.)
- SHLM CX 2	86 kg (190 lbs.)
- SHLM CX 3	147 kg (323 lbs.)

### Materials

The shielding material is lead. The cable is either stainless steel, Hastelloy, or Inconel.

### Housing Versions

The housing is available in carbon steel with polyester powder coating. A stainless steel housing is also available.

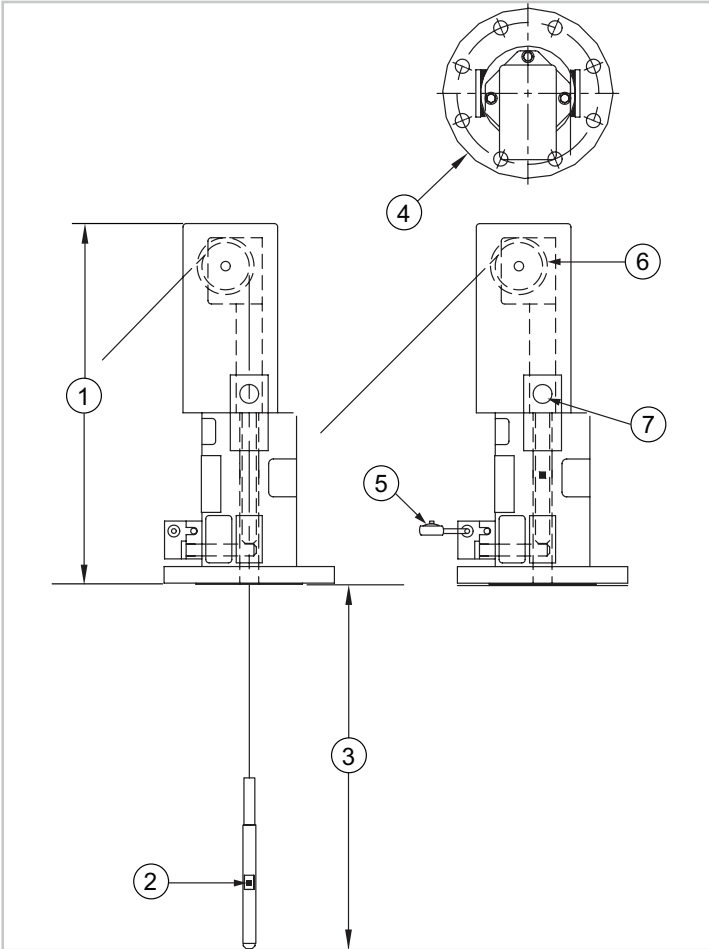
### Approvals

The source holder is regulated by the U.S. Nuclear Regulatory Commission (NRC). Compliance certificates are issued by the State of Ohio under an agreement with the NRC.

### Operation

Licensed technicians are required in order to insert the source cable from the source holder into the drywell. Before inserting the cable, the technician must remove the locking mechanism.

## Dimensions



### SHLM C

- 1a Overall Length SHLM CX 1 - 484 mm (19 1/16")
- 1b Overall Length SHLM CX 2 - 514 mm (20 1/4")
- 1c Overall Length SHLM CX 3 - 584 mm (23")
- 2 Source Capsule
- 3a SHLM CX 1 - Insertion Length (Source Placement is 86 mm (3 3/8") less)
- 3b SHLM CX 2 - Insertion Length (Source Placement is 102 mm (4") less)
- 3c SHLM CX 3 - Insertion Length (Source Placement is 127 mm (5") less)
- 4a SHLM CX 1 - 4" ANSI 150# Flange
- 4b SHLM CX 2 - 6" ANSI 150# Flange
- 4c SHLM CX 3 - 8" ANSI 150# Flange
- 5 Locking Mechanism
- 6 Pulley
- 7 Lifting Eye

## Information

You can find additional information about VEGA product offerings from our home page, [www.vega.com](http://www.vega.com). Brochures, operating instructions, quick reference guides, specification sheets, and drawings are also available from the Downloads section of our homepage.

## Device Selection

The Downloads section of our home page, [www.vega.com](http://www.vega.com) provides application data sheets so you can select the measuring principle or product for your particular application.

## Contact

Please call 1-513-272-0131, Monday through Friday, 8:00 A.M.-5:00 P.M., EST (Eastern Standard Time) if you have any questions. For emergencies after hours, call the number above and follow the voice mail instructions.

*All information is subject to change without notice.*